

Action Item Review

A. Culley
CSOC Human Spaceflight
Network Support Group Meeting
September 18, 2002

AI No.	Assignee	Action	Due Date	Response	Status
0299-05	T. Sobchak	Contact Doug England (KSC) and Doug Lyons (KSC/NTD) regarding proposed composite forward link requirements change between MIL and KSC.	Ongoing	Status as of 9/5/02: Exclusion for MILA Replacement funding is being secured by G. Morse. Details are being worked by CSOC as part of exclusion for MILA. Current plan is to implement the functionality at KSC at the CD&SC. Presentation was made on August 7. Will be kept open to track progress. (10/5/01) Action is in work by the KSC Shuttle Project Office to determine if KSC will accept responsibility for building the Shuttle Forward Link during EMCC implementation. (06/17/99). A meeting was held at KSC to discuss work in progress on CSOC development of SOW for KSC generation of Shuttle FWD link data for EMCC and testing. (06/08/00).	Open
0300-09	J. Sidotti	Update the PRD appropriately for 11-Meter support out of WLPS.	Ongoing	No near term plan to have 11M system at WLPS.	Closed
0800-08	P. Mattingly M. Marsh	Update PRD to include EMCC requirements changes with respect to the DSMC transition of NCC functions.	Ongoing	Status as of 09/28/01: PRD will be updated pending update to EMCC CAP, which is now underway. Response from P. Mattingly on 3/20/01: Waiting for the JSC GC to update the requirements.	Open
0517-13	J. Aquino	Regarding the Voice Switch Update, facilitate a mission voice upgrade briefing to include all interested JSC elements (JSC is concerned that control of A/G, Space to Ground, and private voice functions will be allocated to MSFC).	Ongoing	The Voice Switch replacement has been canceled by CSOC, so this is no longer an issue. (8/02)	Closed
0517-15	K. Hames/JSC	Provide MMU deployment schedule, preliminary ESTL MMU report, and RF ICD to John Smith for distribution to Network personnel for information and review purposes.	Ongoing	Information provided.	Closed

Action Item Review (continued)



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0517-16	T. Sobchak/B. Schneck	Re: X-38 Mission Timeline, provide to Henry Allen a list of commercial IDIQ and other site availability for the V201 drop test. Identify potential C-band trackers and associated costs for all sites.	Ongoing	Action closed by Henry Allen based on inputs received from GSFC personnel John Hankinson and Joe St. John. Status as of 11/30/01: Bruce Schneck provided list of commercial IDIQ and other site availability for the V201 drop test. Identification of potential C-band trackers and associated costs for all sites is being worked.	Closed
NSG-01-23-01	J. Sidotti	Ensure that WSC is using a training plan or matrix for vector management training. Obtain a copy of the matrix from Bob Hudgins.	03/29/02	Bob Hudgins provided the Vector Management Training Progress Chart on 6/4/02. All individuals have completed STS and ELV launch vector management training.	Closed
NSG-01-23-02	J. Hankinson	Send Henry Allen a copy of the presentation on the MOSA hardware replacement.	03/29/02	Presentation sent on 4/11/02.	Closed
NSG-01-23-03	B. Schneck	Assemble a group, including GSFC, NISN, SMMs, NOMs, MIL, and JSC GC, to work out a schedule for IP Command testing and transition.	Ongoing	This action will be closed pending the closure of below action NSG-01-23-04 at the upcoming NSG meeting at JSC on 9/16-19, 2002. Status as of 6/14/02: Awaiting answer to NSG-01-23-04 below.	Open
NSG-01-23-04	S. Douglas	Provide T. Sobchak with a formal response to IP Command diversity for MIL launch support and recommend architecture.	Ongoing	This action will be closed by a presentation by Michele Mascari at the upcoming NSG meeting at JSC on 9/16-19, 2002. Status on 7/19/02: Diversity analysis completed, estimate to complete work in progress. Status as of 4/12/02: Still awaiting a response for the WAN Outsource Contractor. I am CCing John Levitt and Jim Porterfield so that they can provide you with the NSR # and the latest status on the NSR that requested the information.	Open
NSG-01-23-05	E. Hendrickson	Provide an update on the landing-plus-six hours payload requirement relative to KSC, Edwards, or WSSH landing. (To be part of the NACAIT.)	03/29/02	As discussed at NSG, there currently are NO landing plus six-hour payload requirements. If requirements do occur, the requirement will be discussed/worked at the NACAIT.	Closed

Action Item Review (continued)



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NSG-01-23-06	Maj. Randall Moore/21SOPS	Determine whether NASA services for RTS support can be covered under OAS contracts support to IUS flyout.	03/29/02	50 Space Wing is coordinating a letter that will allow NASA and the Air Force to continue to provide support through flyout of IUS 23 Apr 03-sept 03). This will allow "business as usual until then. There will be no support cutoff in September 02.	Closed
NSG-01-23-07	B. Marriott/G. Horlacher	Validate the OAS TCS UHF A/G requirement with the AEFTP.	03/29/02	Oak Hangar (LION) UHF requirement has been removed from the program requirement document (PRD). JSC will not schedule Oak Hangar (LION) UHF starting with STS-110 and subsequent flights.	Closed
NSG-01-23-08	B. Schneck/D. Malone/G. Ruck	Coordinate a test plan with KSC CD&SC to determine if they are experiencing E-lead transitions when using E&M keying.	03/29/02	7/11/02: CD&SC is reevaluating their need to perform the testing.	Closed
NSG-01-23-09	B. Schneck/D. Connelly	Withdraw the SR for transition to JSC.	03/29/02	Don Connelly was notified on February 17, 2002 to withdraw the SR. The E&M conversion box is being installed at JSC	Closed
NSG-01-23-10	F. Pifer/R. Grossman	Work with J. McKinney to get update on STS orbiter high definition TV operations.	03/29/02	This item has been completed for the STS Orbiter Digital Television (DTV) which is flying on STS-110 and STS-107. The Networks have successfully verified the support during the SN STS-110 Ver/Val Test on 3/29/02. JSC advised on 2/27/02 that the video on 110 or 107 is NOT HIGH Definition TV (HDTV) and should not be referred to as such. The recommended reference is simply DTV (or Standard Definition TV - SDTV). The HDTV is being developed for the ISS and will be manifested as a payload to be transported on STS-114 in January 2003. HDTV testing via TDRS for the ISS has been requested by the JSC ESTL as of 4/1/02. Tentative test dates are May 22 and 23, 2003.	Closed

Action Item Review (continued)



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NSG-01-23-11	B. Schneck/G. Troendly	Determine if Maspalomas (USN) can support data dump for X-38.	03/29/02	Greg Troendly from CSOC Commercialization office is participating in the monthly X-38 telecons and providing the info to JSC	Closed
NSG-01-23-13	M. Mascari/B. Gioannini	Determine if it makes sense to replace the current WSC differential ECL with something more commercially viable.	03/29/02	M. Mascari and B. Gioannini agree that having WSC change their interface to a network-compatible interface is not feasible.	Closed
NSG-01-23-14	J. Sidotti/J. Smith/A. Culley	Coordinate posting forecasts and SGLT TDRS schedules on the ND web site.	03/29/02	There is a link to the latest SN Configuration chart on the ND website on the Network Resources page, http://idm.honeywell-tsi.com/hpshuttle2/hsd/net.html . Click the NCC link and you can download or view the current file.	Closed
NSG-01-23-15	B. Schneck	Talk with H. Michelsen regarding open TDRS scheduling.	03/29/02	UPS Release 13 gives JSC the ability to use OPEN TDRSS Scheduling.	Closed
NSG-01-23-16	T. Sobchak	Coordinate a virtual SIC scheduling orientation session for FAO, ops planners, and pointing. (Note: Coordinate with Milt, Bob, and Wayne)	09/03/02	Doesn't appear to be a need for virtual SIC scheduling orientation. It was fully utilized for STS-111 and no problems were encountered.	Closed

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NSG-01-23-17	J. Sidotti/M. Duffey	Coordinate a time to do Release 13/ANCC testing, prior to shipping the ANCC to WSC.	03/29/02	Status from Mike Duffey on 9/5/02: According to Bill Gainey, Release 13 testing is planned for the week of 9/16/02. Status from Mike Duffey on 9/4/02: Fundamental testing for Release 11 and 13 has been completed with the DSMC, prior to the switchover. Outstanding issues are with receiving the TUT, via the graphics interface on UPS. (Engineering currently working configuration changes). Prototypes have been developed for both SSP and ISS. Still awaiting decisions concerning specific prototypes developed to meet the PRD requirement for ISS, and to allow usage of the TW7, and TES designations. Still working on documentation for training package. Controllers will be introduced to the Release after material has been developed. REAL-TIME – ISS: JSC is encountering intermittent dropouts on messaging after events have been released from forecast, and sometimes during realtime updates. JSC dropouts have been occurring on the prime interface. JSC has performed successful BERT testing on the backup for at least 24 hours without errors. As of 9/4/02, at 2000Z, JSC has performed a Failover to Backup interface to the WSC. JSC will now perform BERT testing on the prime for at least a 24 hours period. The backup interface will also utilize a complete set of software (Release 11).	Closed

Action Item Review (continued)



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NSG-HEDS-01-22-02	B. Manning	Write NSR to reopen IONET backbone study.	02/05/02	NSR number 29565 reopens NSR 28107. The NSR has a Requested Start Date of 03/15/02 and was submitted 02/05/02.	Closed
NSG-HEDS-01-22-03	B. Manning/M. McCutchen	Review prioritized list of circuit restorals provided to carrier and verify that the ISS Command between MSFC and JSC is identified as a priority circuit for restoral.	02/05/02	The ISS command channels have been set at a higher priority than the voice channels on the same T1s (DHEM956606 and 9566-07)	Closed
NSG-HEDS-01-22-04	M. Mascari	Determine if ISS Command backup is on the same bundle as the primary channel.	02/12/02	The ISS Command Prime and ISS Command Backup Circuits are on different T1s. The ISS Program has elected to not require diversity on this data flow in order to control costs. Diverse routing of these two channels cannot be guaranteed.	Closed
NSG-HEDS-01-22-05	B. Schneck	Ensure that the mission-critical outage notification process is working.	02/12/02	There is an LOP stating that users/carriers, etc will be notified of outages. A reminder ODM, (a local memorandum) was issued to remind everyone in Nascom to coordinate outages with CS&SC.	Closed
NSG-HEDS-01-22-06	D. Mathis	Determine if there are drivers for the additional line from Bldg. 8 to Bldg. 17 that is requested for MPEG-2//MPEG-4 testing.	02/05/02	The following response was provided by Jeff Durham/Patrick Chimes on January 23, 2002: The third (encoder backup 17F-5) line is lit up; it terminates on a patch panel in building 8, and on the drawing it looks like it goes to the NISN i/f cabinet (i.e., minimal work to exercise it).	Closed
NSG-HEDS-01-22-07	B. Manning	Complete and document configuration required to provide ISS video to RPI sites that have peering relationship to same network that NISN currently has multicast relationship with	02/12/02	We are testing this with two Remote Payload Investigator (ROI) sites. Lisa Watson put requirements for service on the MSFC Homepage.	Closed
NSG-HEDS-01-22-08	B. Manning	Confirm with R. Wegener the three-month implementation time (Option 1) for using existing channel banks at JSC.	02/05/02	Implementation time is three months after the SR approval.	Closed
NSG-HEDS-01-22-09	B. Manning	Determine cost of providing ISS video at Glenn Research Center.	02/05/02	Update 2/5: Mr. Manning indicates charges for this will be \$119,000.	Closed

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NSG-HEDS-01-22-10	B. Manning	Ensure that M. McCutchen and M. Allen include IP/IONET in their efforts to standardize processes and terminology.	02/05/02	Update 2/5: B. Manning has spoken to M. McCutchen concerning this action.	Closed
NSG-ISS/SSP-01-23-01	J. Sidotti	Request that H. Toomer distribute to JSC contact information (including pager numbers) for ISS/SSP points of contact at GSFC.	03/29/02	A listing of Points-of-Contact at GSFC for support of ISS/SSP has been developed and is being submitted to JSC.	Closed
NSG-ISS/SSP-01-23-02	B. Schneck	Arrange for a web site accessible to JSC for posting WSC Long Range schedule information as well as other pertinent Network items.	03/29/02	Appropriate action taken by Angela Culley on 4/23/02.	Closed
NSG-ISS/SSP-01-23-03	J. Sidotti	Provide Mike Duffey with a list of documents being evaluated for updates because of the DSMC transition.	03/29/02	Information provided to Mike Duffey by Steve Testoff.	Closed
WSSH-01-23-01	B. Schneck	Investigate impacts (staffing and cost) to support JSC dump requirements at MILA and WFF.	03/29/02	Telecons were conducted with both sites who advised that there would be no staffing impacts or additional costs.	Closed
WSSH-01-23-02	B. Schneck/W. Inhat	Investigate upgrading DFRC comm lines to support 1-Mb dump rates. Consider using moved OAS circuits.	03/29/02	Cost estimate for a T1.5 Mission Critical Service Between DFRC and GSFC was provided; NSR ROM #29568.	Closed
WSSH-01-23-03	T. Sobchak	Work with DFRC management to determine staffing requirements to support JSC dump requirements.	03/29/02	Currently identified JSC on-orbit requirements pose no impact to current DFRC staffing. In fact DFRC estimates they could support FM dumps for all passes that have scheduled DFRC C-band support.	Closed
WSSH-01-23-04	T. Sobchak/B. Schneck	Talk with USN (commercial sites) regarding off-range support for JSC dump requirements.	03/29/02	Bruce Schneck contacted Greg Troendly from the CSOC commercialization office who informed Bruce that 1024kb Dump requirements would involve some hardware/software engineering changes as well as increasing the line bandwidths to accommodate a real-time 1 to 1 data transfer	Closed

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WSSH-01-23-06	B. Schneck/M. Mascari	(1) Determine if there is a need for increased bandwidth at DFRC and WLPS to support on-orbit FM dump requirements. (2) Determine if existing OAS circuits can be moved to meet the requirements for DFRC and WLPS. (3) Can OAS equipment and circuits be used to provide the WSMR data interface requirements?	03/29/02	1. DFRC Yes WLPS No 2. Adding one ckt to DFRC is recommended. Cost is comparable to existing T1 GSFC-OAS. Presentation discussed with ND on March 29. Requested updates to presentation are in work. No additional NISN equipment is required. 3. When OAS is deactivated, OAS equipment will be retrieved, refurbished as necessary and redeployed as feasible. WSSH install will use available equipment or purchase new equipment as required. Schedule for WSSH install and OAS deactivation is fluid.	Closed
WSSH-01-23-07	S. Stich	JSC provide formal feedback regarding Oak Hangar support requirements.	03/29/02	Oak Hangar UHF A/G requirements to be removed after STS-109 and subsequent flights.	Closed
WSSH-01-23-09	T. Sobchak	Evaluate FM dump capability from existing WSSH S-band sites.	11/01/02		Open
WSSH-01-23-10	F. Pifer	Coordinate scheduling of station flybys at WSSH for UHF proficiency passes.	03/29/02	This items was discussed in detail with Shuttle Training Aircraft (STA) personnel at JSC prior to the DFRC flyby's in February 2002. The STA cannot simulate the Orbiter which uses a cavity-mounted antenna and the STA uses an externally mounted antenna. Scheduling of flyby's at WSSH will be worked to check out the system the next time the STA is scheduled for DFRC flyby's. UHF is normally used to communicate between the STA and the Ground Network station when the STA supports proficiency training with the GSFC PSS/NSP and STS transponder. It should be noted that UHF proficiency training with the STA would not be realistic due to the antenna differences and flight plan restrictions.	Closed
WSSH-01-23-11	J. Smith	Provide WSSH presentations to Messrs. F. Smith, R. Thornton and Ms. M. McLamb	02/05/02	WSSH presentation sent to F. Smith, R. Thornton and M. McLamb on 2/5/02.	Closed